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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,010	03/01/2002	Pekka Kostiainen	1030.41310X00	1138
20457	7590	05/21/2004	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			PHU, SANH D	
			ART UNIT	PAPER NUMBER
			2682	5

DATE MAILED: 05/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/085,010

Applicant(s)

KOSTIAINEN ET AL.

Examiner

Sanh D Phu

Art Unit

2682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>4</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Information Disclosure Statement

1. The IDS filed 8/15/2003 has been considered and recorded in the file.

Claim Rejections – 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1–2, 4,5, 9, 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Andrews (5,911,121).

Regarding to claim 1, see Fig. 1, 2 and 3, col. 2, line 58 to col. 4, line 10, Andrews discloses that a method of operating an electric circuitry (50) included in an exchangeable cover part (44) for supporting a user interface of said wireless terminal (10), said wireless communication terminal (10) and said user

exchangeable cover part (44) are electrically interconnected by means of an electrical connector (60), said method comprises:

Identification of the type of said user exchangeable cover part (64,66) (see col. 3, lines 41–52); and

Operating of the electric circuitry of said user exchangeable cover part in dependence of the identification of user exchangeable cover part (see col. 3, line 5 to col. 4, line 10).

Regarding to claim 2, Andrews discloses that a method wherein the connector (60) has a plurality of pins (C_1 , C_2 , C_3 and C_G), and at least one of said connector pins is operated in an identification state for sensing a resistor value included in the identification means, and afterwards in an operation state for operating the electric circuitry of said user exchangeable cover part (see col. 3, line 41 to col. 4, line 10).

Regarding to claim 4, see Fig. 1, 2 and 3, col. 2, line 58 to col. 4, line 10, Andrews discloses that a wireless communication terminal (10) having an user exchangeable cover part (44), wherein the wireless communication

terminal and user exchangeable cover part are electrically interconnected by means of a electrical connector (60);

Said user exchangeable cover part comprises identification means (64,66) (see col. 3, lines 41–52);

Said user exchangeable cover part including an electric circuitry (50)(detection circuit) for supporting a user interface of said wireless terminal (see col. 3, lines 53 to col. 4, line 10);

Said wireless terminal identifies said user exchangeable cover part by detecting the identification means (see col. 3, line 53 to col. 4, line 10); and

Said wireless terminal operates the electric circuitry of said user exchangeable cover part in dependence of the identification of user exchangeable cover part (see col. 3, line 5 to col. 4, line 10).

Regarding to claim 5, Andrews discloses that a wireless communication terminal wherein the connector includes plurality of connector pins arranged in line an in equal distance (see Fig. 9 and 7).

Regarding to claim 9, Andrews discloses that a wireless communication wherein at least one of said connector pins is operated in an identification state

for sensing a resistor value included in the identification means, and afterwards in an operation state for operating the electric circuitry of said user exchangeable cover part (see table 1, col. 3, line 41 to col. 4, line 22).

Regarding to claim 11, Andrews discloses that a user exchangeable cover for releasable attachment to a wireless communication terminal, said user exchangeable cover has an electrical connector part for being electrically connected the wireless communication terminal in attached position, wherein

Said user exchangeable cover comprises identification means;

Said user exchangeable cover includes an electric circuitry for supporting a user interface of said wireless terminal; and

Said user exchangeable is adapted to allow the wireless terminal to operates the electric circuitry of said user exchangeable cover part in dependence of the identification of user exchangeable caver part.

Claim Rejections – 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2682

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 6 – 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews (5,911,121).

Regarding to claim 6, Andrews does not disclose that a wireless communication terminal wherein the connector pins is arranged at the rear side of the cover part.

However, at the time of the invention was made, it would have been obvious for one skilled in the art to implement connector pins at the front side of the cover part to the rear side of the cover part since the shifting location of parts does not change function of the device and it is based on the designer's preference, therefore, it has been held that shifting location of parts where needed is obvious. In re Japikse, 181 F.2d 1019, 1023, 86 USPQ 70, 73 (CCPA 1950).

Regarding to claims 7 and 8, Andrews discloses that a wireless communication wherein the number of connector pins is four.

He does not disclose the number of connectors is three or five.

However, at the time of the invention was made, it would have been obvious for one skilled in the art to make a couple extra pins as ground pins, based on designer's preference, without changing the over all function of the device are well-known for the electrical circuitry. Therefore, it would have been obvious for a person skilled in the art to modify the electrical circuitry so that it would gain a good grounding feature.

6. Claims 3, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews (5,911,121) in view of Slipy et al (5,848,152).

Regarding to claims 3 and 10, Andrews does not disclose a frequency mode for ringing signal and providing illumination effect.

Slipy et al disclose that a method wherein operation states is a frequency mode for directing an electrical representation of a ringing signal to the electric circuitry and providing an illumination effect following the ringing signal (see Fig. 15, col.10, lines 55-60 and col. 11, lines 50-56).


At the time of the invention was made, it would have been obvious for one skilled in the art to implement Andrew's invention, as taught by Slipy et al, in order to have a frequency mode for ringing signal and providing illumination effect so that the users are able to catch a call as well as to see the keypads and the messages clearly at night.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number is (703) 305-8635. The examiner can normally be reached on 8:00-16:30.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-8635.


VIVIAN CHIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Sanh D. Phu
Examiner
Art Unit 2682

5/17/04